

# memorandum

Savannah River Operations Office (SR)


DATE: JAN 18 2008  
REPLY TO:  
ATTN OF: EQMD (Danker, [803] 952-8603)

SUBJECT: National Environmental Policy Act (NEPA) 2008 Annual Planning Summary (APS) for DOE Savannah River Site (SRS)

TO: Frank Marcinowski, Deputy Assistant Secretary for Regulatory Compliance (EM-10), HQ

Attached is the NEPA 2008 APS for DOE SRS, as required by DOE Order 451.1B, NEPA Compliance Program. The planning summary has been coordinated with the National Nuclear Security Administration at SRS that includes the Office of Site Engineering and Construction Management (NA-262). The availability of this planning summary will be announced to the public through the *SRS Environmental Bulletin*.

If you have questions, please contact me or your staff may contact Andrew R. Grainger, DOE SRS NEPA Compliance Officer, at (803) 952-8001 or Steve Danker at (803) 952-8603.



Jeffrey M. Allison  
Manager

EQMD:SAD:rvf

EQMD-08-007

Attachment:  
NEPA 2008 APS for DOE SRS

cc w/attach:  
Tish O'Connor (EM-11), HQ  
David R. Hill (GC-1), HQ  
James Owendoff (EM-3), HQ  
Percy Fountain (EM-3.2), HQ

# Annual NEPA Planning Summary Environmental Assessments (EAs) Expected to be Initiated in the Next 12 Months

*Department of Energy (DOE) Savannah River Site (SRS)*

*Jan-08*

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)		Description
DOE SRS expects to initiate one or more new EAs over the next 12 months.		Determination Date:		
		Transmittal to State:		
		EA Approval:		
		FONSI:		
	Total Estimated Cost			

Annual NEPA Planning Summary Environmental Impact Statements (EISs) and Supplement Analyses (SAs) Expected to be Initiated in the Next 24 Months				
DOE SRS				
Jan-08				
*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)		Description
Environmental Impact Statements, none		Determination Date:		
		notice of intent (NOI):		
		Scoping:		
		Draft		
		Hearings		
		Final		
		record of decision (ROD)		
		Determination Date:		
		NOI:		
		Scoping:		
		Draft		
		Hearings		
		Final		
		ROD		
Supplement Analysis, High-Level Waste Tank Closure at the Savannah River Site (DOE/EIS-0303-SA1)	\$20,000	Supplement Analysis:		If DOE decides to utilize an advanced cleaning technology for SRS HLW tanks, DOE may prepare a Supplement Analysis to provide more realistic estimates of the environmental impacts of tank closure activities described in the High-Level Waste Tank Closure EIS (DOE/EIS 0303).
		Determination Date:	uncertain	
		Approval:	uncertain	
	Total Estimated Cost			
	\$20,000			

## Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Assessments (EAs)

DOE SRS

Jan-08

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)		Description
EA for the Biomass Cogeneration and Heating Facilities at SRS (DOE/EA-1605)	\$10,000	Determination Date:	Sep-07	DOE will prepare an EA to analyze the potential environmental consequences of the proposed replacement source of steam at SRS. The purpose of the proposed action is to replace the existing coal-fired D-Area Powerhouse and oil-fired K-Area Powerhouse. In the EA, DOE will analyze alternatives other than coal. The existing facilities were constructed in 1954 and 1992, respectively. The preferred location for the D-Area replacement would be on Burma Road near the intersection with C Road on SRS. The boiler would provide the steam required for F, H, and S-Areas. DOE is also proposing to replace the K-Area steam plant with two smaller biomass-fueled boilers. One boiler would be located in K-Area and one in L-Area. It is anticipated that clean biomass and bio-derived fuels will be the fuel source for all of the new boilers.
		Transmittal to State:	Jan-08	
		EA Approval:	Mar-08	
EA for the Proposed Use of SRS Lands for Military Training (DOE/EA-1606)	\$63,000	FONSI:	Mar-08	DOE will prepare an EA to analyze the potential environmental consequences of the proposed use of SRS lands for military training. The purpose of the proposed action is to provide the U.S. Army with greater flexibility in developing training missions and strategies in response to rapidly changing world conditions. The scope of the proposed action includes evaluation of requirements for and environmental impacts from tactical training at SRS.
		Determination Date:	Oct-07	
		Transmittal to State:	Mar-08	
		EA Approval:	Jun-08	
EA for the Tank Closure Demonstration Center (TCDC) at SRS (DOE/EA-1580)	\$20,000	FONSI:	Jun-08	DOE proposes to design, construct, and operate a new tank closure demonstration facility at SRS for the purpose of demonstrating new technologies to perform specific Tank Farm operations including bulk waste removal, heel removal, annulus cleaning, and tank closure. The TCDC would consist of an open-top tank to simulate an actual SRS waste tank (approximately 85 feet in diameter by 12 feet deep, steel sided with a concrete bottom, partial annulus, built above grade, and capability to install equipment such as cooling coils and tank support columns in order to simulate actual waste tank conditions). A primary steel bridge superstructure would span the open tank to provide support for waste removal equipment. Stairways would be provided for access to the superstructure platforms. Access to the tank bottom for tank inspection, simulant removal, equipment instrumentation, or maintenance purposes would be provided. The EA schedule is uncertain due to scope revisions and funding issues.
		Determination Date:	Nov-06	
		Transmittal to State:	uncertain	
		EA Approval:	uncertain	
DOE SRS is not preparing any programmatic EAs (PEAs), is not supporting the preparation of any PEAs, and does not anticipate initiating any PEAs in the next 12 months.				
	Total Estimated Cost			
	\$93,000			

\* Please include projected NEPA milestones, if planned.

## Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Impact Statements (EISs) and Supplement Analyses (SAs)

DOE SRS

Jan-08

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)		Description
<b>Stockpile Stewardship and Management Supplemental Programmatic EIS - Complex Transformation (DOE/EIS-0236-S4)</b>	tbd	Determination Date:	Apr-06	The National Nuclear Security Administration (NNSA) will prepare a supplement to the Stockpile Stewardship and Management Programmatic EIS to address the environmental impact from the continued transformation of the nuclear weapons complex. The existing SRS tritium operations, including the Tritium Extraction Facility, would be part of the No Action alternative; that is, those operations would continue at SRS as part of Complex 2030. SRS would also be an alternative site for a Consolidated Plutonium Center for long-term research and development, surveillance, and manufacturing operations for a baseline capacity of 125 pits per year. A scoping meeting for the EIS was held on November 9, 2006, in North Augusta, SC. The Modern Pit Facility EIS was cancelled with the notice of intent to prepare the Complex Transformation EIS. The final PEIS and ROD are scheduled to be available in August and September 2008, respectively.
		NOI:	Oct-06	
		Scoping:	Nov-06	
		Draft	Jan-08	
		Hearings	Feb/Mar08	
		Final	Aug-08	
		ROD	Sep-08	
<b>Programmatic EIS for Disposition of Scrap Metals (DOE/EIS-0327)</b>	n/a	Determination Date:	Jan-01	DOE will evaluate alternatives for disposition of DOE scrap metals that may have been in radiological areas. The disposition options to be analyzed include continuation of the suspension on unrestricted release of metals for recycling, unrestricted release of scrap metals for recycling, and disposal. The NEPA review schedule is uncertain.
		NOI:	Jul-01	
		Scoping:	Oct-01	
		Draft	delayed	
		Hearings		
		Final	delayed	
		ROD	delayed	
<b>Supplemental EIS, Plutonium Disposition at SRS (DOE/EIS-0283-S2)</b>	\$1,200,000	Determination Date:	Aug-06	DOE will prepare a SEIS to evaluate the potential environmental impacts of plutonium disposition capabilities that would be constructed and operated at SRS. DOE will evaluate alternatives for disposition of 13 metric tons of surplus non-pit plutonium and 9 metric tons of plutonium declared surplus in September 2007. Alternatives include processing in H-Canyon, disposition using the Mixed Oxide Fuel Fabrication Facility, and a can-in-canister vitrification process. The draft EIS is scheduled for July 2008 and final for December 2008.
		NOI:	Mar-07	
		Scoping:	Apr-07	
		Draft	Jul-08	
		Hearings		
		Final	Dec-08	
		ROD	No sooner than 30 days after FEIS	

## Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Impact Statements (EISs) and Supplement Analyses (SAs) (cont)

DOE SRS

Jan-08

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)		Description
<b>EIS for the Disposal of Greater-Than-Class-C Low-Level Radioactive Waste (GTCC LLW)</b> <b>DOE/EIS-0375</b>	tbd	Determination Date:		DOE will evaluate GTCC LLW disposal in a geologic repository, in intermediate depth boreholes, and in enhanced near surface disposal facilities. Candidate locations for these disposal facilities would be: the Idaho National Laboratory in Idaho; the Los Alamos National Laboratory and Waste Isolation Pilot Plant in New Mexico; the Nevada Test Site and the proposed Yucca Mountain repository in Nevada; the Savannah River Site in South Carolina; the Oak Ridge Reservation in Tennessee; and the Hanford Site in Washington. DOE would also evaluate generic commercial disposal at arid and humid locations. In addition, DOE proposes to include DOE LLW and transuranic waste having characteristics similar to GTCC LLW and which may not have an identified path to disposal (hereafter referred to as GTCC-like waste) in the scope of this EIS. DOE's GTCC-like waste is owned or generated by DOE. The use of the term "GTCC-like" does not have the intent or effect of creating a new classification of radioactive waste. The NOI is available on the internet at <a href="http://www.eh.doe.gov/nepa">http://www.eh.doe.gov/nepa</a> . Additional information on the GTCC LLW EIS can be found at <a href="http://www.gtcceis.anl.gov">http://www.gtcceis.anl.gov</a> . The draft EIS is scheduled to be issued in mid 2008.
		Advance NOI:	May-05	
		Scoping:	Aug-07	
		Draft	Jun-08	
		Hearings		
		Final		
<b>Supplement Analysis, Highly Enriched Uranium and Spent Nuclear Fuel Management</b> <b>(DOE/EIS-0203-F-SA-03)</b> <b>(DOE/EIS-0279-SA-01)</b>	\$40,000	ROD		DOE will prepare a Supplement Analysis to summarize the environmental impacts of the continued operation of H-Canyon and associated facilities to prepare HEU, and HEU recovered from spent nuclear fuel, for disposition. DOE would continue to use the H-Canyon facility to process SNF and HEU materials and blend the HEU down to LEU for use as feedstock for fabrication of commercial nuclear fuel. The SA would also evaluate the impacts of the SRS - INL fuel swap.
		Supplement Analysis:		
		Determination Date:	Oct-06	
		Approval:	Dec-07	

## Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Impact Statements (EISs) and Supplement Analyses (SAs) (cont)

DOE SRS

Jan-08

<b>Programmatic EIS for the Global Nuclear Energy Partnership (GNEP) DOE/EIS-0396</b>		Determination Date:	Mar-06	DOE will evaluate technologies that would change the way spent nuclear fuel from commercial light-water power reactors is managed. Domestically, GNEP involves a programmatic proposal as well as project-specific proposals. The programmatic proposal is to begin to recycle spent fuel and destroy the long-lived radioactive components of that spent fuel. GNEP includes a proposal to construct and operate an advanced fuel cycle research facility to perform research into Special Nuclear Fuel recycling processes and other aspects of advanced nuclear fuel cycles. GNEP involves two programmatic initiatives. First the U.S. would cooperate with countries that have advanced nuclear programs to supply nuclear fuel services to countries that refrain from pursuing enrichment or recycling facilities to make their own nuclear fuel. Such countries would have no need to develop the technology and infrastructure to enrich uranium or separate plutonium, both of which have application in the production of nuclear weapons. Second, the U.S. would promote proliferation-resistant, modular power reactors suitable for use in developing economies.
		Advance NOI:	Mar-06	
		Scoping:	Feb-07	
		Draft	winter-08	
		Hearings		
		Final	summer-08	
	tbd	ROD	summer-08	
	<b>Total Estimated</b>			
	\$1,240,000			